## INDEX TO VOLUME XXV

## SUBJECTS

SUBJECTS	
Absorption of Some Solids for Light of Extremely Short Wave-Lengths	PAGE
Theodore Lyman	- 45
Antares, The Variable Radial Velocity of. W. H. Wright -	- 58
Anthracene and Phenanthrene Vapors, Fluorescent and Absorption	
Spectra of. T. Sidney Elston	- 155
β Arielis, Orbit of Spectroscopic Binary. H. Ludendorff	320
ASTEROIDS, Photographic Method for Detection of Variability in. Joel H	
Metcal)	- 264
ASTROPHYSICS, Arbitrary Distribution of Light in Dispersion Bands, and	1
Its Bearing on Spectroscopy and. W. H. Julius	- 95
BINARY β Arietis, Orbit of Spectroscopic. H. Ludendorff -	- 320
« Cancri, Orbit of the Spectroscopic. Naozo Ichinohe -	- 315
BRIGHTNESS of Inner Edge of Penumbra in Sun-Spots (Second Note). S.	
Chevalier	- 273
CANAL Rays in Hydrogen, Radiation of. J. Stark	23,170
Remarks on Hull's Observations of the Doppler Effect in. J. Stark	- 230
Doppler Effects and Polarization in. G. F. Hull	- 234
« Cancri, Orbit of Spectroscopic Binary. Naozo Ichinohe -	315
e Capricorni, Spectrum of. V. M. Slipher	- 285
U Cephei, Variable Radial Velocity of. V. M. Slipher	- 284
o Ceti, Preliminary Note on the Spectrum of (Mira). V. M. Slipher -	66
Spectrum of Mira. V. M. Slipher	- 235
CLERKE, AGNES MARY. Margaret Lindsay Huggins	- 226
COELOSTAT Telescope, A Vertical. George E. Hale	- 68
T Coronae, Nova, of 1866. E. E. Barnard	279
DISCHARGE, Velocity of Metallic Particles in Spark. Arthur Schuster -	277
DISPERSION Bands, Arbitrary Distribution of Light in, and Its Bearing on	
Spectroscopy and Astrophysics. W. H. Julius	95
DISPERSION-Piece, The Daylight Sensitometry of Photographic Plates, and a	
Suggested Standard. Studies in Sensitometry. I. Robert James	
Wallace	- 116
DISTORTION of Photographic Films on Glass. Sebastian Albrecht -	349
DOPPLER Effect in Canal Rays, Remarks on Hull's Observation of. J.	
Stark	230
Effects and Polarization in Canal Rays. G. F. Hull	234
ELECTRICAL Fields, Investigation of Influence of, upon Spectral Lines. G.	
F. Hull	. 1
FILMS on Glass, On the Distortion of Photographic. Sebastian Albrecht	349
- Land, Car in Land and Car a notification of the Control of the C	349

Champing Plane Pediation with Reference to Her in Absolute Determine
GRATINGS, Plane Reflection, with Reference to Use in Absolute Determina-
tion of Wave-Lengths. Ernst Giesing 237
GROUNDWORK in the Constellation Taurus, On a Nebulous. E. E.  Barnard 218
Darnara 218
HELIOMICROMETER, The. George E. Hale 293
HYDROGEN, Radiation of Canal Rays in. J. Stark 23, 170  IMAGE, Character of Star, in Spectrographic Work. J. S. Plaskett - 195
LIGHT of Extremely Short Wave-Lengths, Absorption of Some Solids for.
Theodore Lyman 45
In Dispersion Bands, Arbitrary Distribution of, and Its Bearing on
Spectroscopy and Astrophysics. W. H. Julius 95
Mira Ceti, Spectrum of. V. M. Slipher 66, 235
NEBULOUS Groundwork in the Constellation Taurus. E. E. Barnard - 218
Nova T Coronae of 1866. E. E. Barnard 279
Y Ophiuchi and T Vulpeculae, Spectrographic Study of the Fourth-Class
Variable Stars. Sebastian Albrecht 330
PHENANTHRENE and Anthracene Vapors, Fluorescent and Absorption
Spectra of. T. Sidney Elston 155
Phenomena of Sun-Spot Spectra, Second Paper on the Cause of the Char-
acteristic. George E. Hale and Walter S. Adams 75
Photographic Plates, The Daylight Sensitometry of, and a Suggested
Standard Dispersion-Piece. Studies in Sensitometry. I. Robert
James Wallace 116
Films on Glass, On the Distortion of. Sebastian Albrecht 349
Polaris, Radial Velocity of. W. W. Campbell 59
Polarization in Canal Rays, Doppler Effects and. G. F. Hull - 234
RADIAL Velocities Are Variable, List of Eight Stars Whose. W. W. Camp-
bell and J. H. Moore 54
Velocities, List of Southern Stars Having Variable. W. H. Wright - 56
Velocity of Antares, The Variable. W. H. Wright 58
Velocity of Polaris. W. W. Campbell 50
Velocities, Nine Stars Having Variable. Edwin B. Frost - 59
Velocity of U Cephei, Variable. V. M. Slipher 284
Velocities, Nine Stars Having Variable. Edwin B. Frost - 59 Velocity of U Cephei, Variable. V. M. Slipher 284 RADIATION of Canal Rays in Hydrogen. J. Stark 23, 170
RAYET, Georges 53
RAYS, Canal, Radiation of, in Hydrogen. J. Stark 23, 170
Remarks on Hull's Observations of the Doppler Effect in Canal. J. Stark 230
Doppler Effects and Polarization in Canal. G. F. Hull 234
REFLECTION, Regular and Diffuse. W. W. Coblentz 282
Reviews, See Table of Contents
Sensitometry, Studies in. I. The Daylight Sensitometry of Photographic
Plates, and a Suggested Standard Dispersion-Piece. Robert James
Wallace 116

INDEX TO SUBJECTS	367
	PAGI
Solids, Absorption of Some, for Light of Extremely Short Wave-Lengths.	
Theodore Lyman	45
	277
SPECTRA of the Components of Double Stars Showing Contrasted Colors, Note	
on the Interpretation of. Sir William and Lady Huggins -	65
Second Paper on the Cause of the Characteristic Phenomena of Sun-	
Spot. George E. Hale and Walter S. Adams	75
of Anthracene and Phenanthrene Vapors, Fluorescent and Absorption.	
	155
of Limb and Center of Sun. Photographic Comparison of. George	
	300
Spectral Lines, Investigation of Influence of Electrical Fields upon. $G. F.$	
Hull	3
	267
Spectrographic Work, Character of Star Image in. J. S. Plaskett -	195
Study of Fourth-Class Variable Stars Y Ophiuchi and T Vulpeculae.	
	330
Spectroheliograph, Some New Applications of. George E. Hale -	311
	320
Binary & Cancri, Orbit of. Naozo Ichinohe	315
Spectroscopy and Astrophysics, Arbitrary Distribution of Light in Disper-	
sion Bands, and Its Bearing on. W. H. Julius	95
Spectrum of • Ceti (Mira). V. M. Slipher 66, Of • Capricorni. V. M. Slipher	235
Of & Capricorni. V. M. Slipher	285
	195
STARS whose Radial Velocities are Variable, List of Eight. W. W. Camp-	
bell and J. H. Moore	54
Having Variable Radial Velocities, List of Southern. W. H.	
Wright	56
Having Radial Velocities, Nine. Edwin B. Frost	59
Showing Contrasted Colors, Note on the Interpretation of the Spectra of	
the Components of Double. Sir William and Lady Huggins -	65
Y Ophiuchi and T Vulpeculae. A Spectrographic Study of the Fourth-	
Class Variable. Sebastian Albrecht	330
STRUCTURE of the Finest Spectral Lines. O. von Baeyer	267
Sun, Photographic Comparison of Spectra of Limb and Center of. George	
	300
Sun-Spot Spectra, Second Paper on the Cause of the Characteristic Phenom-	
ena of. George E. Hale and Walter S. Adams	75
SUN Spots, On Brightness of Inner Edge of Penumbra in (Second Note).	

S. Chevalier - - - 273

Taurus, Nebulous Groundwork in the Constellation of. E. E. Barnard - 218

Telescope, A Vertical Coelostat. George E. Hale - - -

VARIABLE Stars Y Ophiuchi and T Vulpeculae, Spectrographic Study	of the	PAGE
Fourth-Class. Sebastian Albrecht		
VARIABILITY in Asteroids, Photographic Method for Detection of. Jo		00
Metcalj		- 264
VELOCITIES Are Variable, List of Eight Stars Whose Radial. W. W. C.	Camp	-
bell and J. H. Moore	-	- 54
List of Southern Stars Having Variable Radial. W. H. Wright		- 56
Nine Stars Having Variable Radial. Edwin B. Frost		- 59
VELOCITY of Antares, The Variable Radial. W. H. Wright -		- 58
Of Polaris, The Radial. W. W. Campbell	,	- 59
Of Metallic Particles in Spark Discharge. Arthur Schuster		277
Of U Cephei, Variable Radial. V. M. Slipher		- 284
T Vulpeculae and Y Ophiuchi, Spectrographic Study of the Fourth-	Class	6
Variable Stars. Sebastian Albrecht		- 330
WAVE-Lengths, The Absorption of Some Solids for Light of Extremely S	Short	
Theodore Lyman		- 45
Investigations on Plane Reflection Gratings, with Reference to	Their	r
Use in Absolute Determination of. Ernst Giesing -		237

## INDEX TO VOLUME XXV

AUTHORS	
ADAMS, WALTER S., and GEORGE E. HALE. Second Paper on the Cause	PAGE
of the Characteristic Phenomena of Sun-Spot Spectra	75
A Photographic Comparison of the Spectra of the Limb and the Center	, ,
	300
Albrecht, Sebastian. A Spectrographic Study of the Fourth-Class Vari-	
	330
9 .	349
	267
BARNARD, E. E. On a Nebulous Groundwork in the Constellation of	
Taurus	218
Nova T Coronae of 1866	279
BARRETT, S. B. Review of Fabry and Buisson's Wave-Lengths of Standard	
Lines	362
CAMPBELL, W. W. The Radial Velocity of Polaris	59
CAMPBELL, W. W., and J. H. MOORE. A List of Eight Stars Whose Radial	
Velocities Are Variable	54
CHEVALIER, S. On the Brightness of the Inner Edge of the Penumbra in	
	273
,	282
ELSTON, T. SIDNEY. The Fluorescent and Absorption Spectra of Anthra-	
	155
Frost, Edwin B. Nine Stars Having Variable Velocities	59
Review of: Sternverzeichnis enthaltend alle Sterne bis zur 6.5 ten Grosse	
für das Jahr 1900, J., R., and L. Ambronn	153
	290
GIESING, ERNST. Investigations on Plane-Reflection Gratings with Refer-	
	237
HALE, GEORGE E. A Vertical Telescope	68
	293
	311
HALE, GEORGE E., and WALTER S. ADAMS. Second Paper on the Cause	
of the Characteristic Phenomena of Sun-Spot Spectra	75
A Photographic Comparison of the Spectra of the Limb and the Center	
	300
HUGGINS, SIR WILLIAM and LADY. Note on the Interpretation of the	
Spectra of the Components of Double Stars Showing Contrasted	
Colors	65

HUGGINS, MARGARET LINDSAY. Agnes Mary Clerke	PAGE 226
HULL, G. F. An Investigation of the Influence of Electrical Fields upon	
Spectral Lines	I
Doppler Effects and Polarization in Canal Rays	234
ICHINOHE, NAOZO. Orbit of the Spectroscopic Binary & Cancri -	315
JULIUS, W. H. Arbitrary Distribution of Light in Dispersion Bands, and	0 0
Its Bearing on Spectroscopy and Astrophysics	95
LAVES, KURT, Review of: Cours d'Astronomie. Première partie: Astro-	
nomie théorique, H. Andoyer	288
LUDENDORFF, H. Orbit of the Spectroscopic Binary & Arietis	320
LYMAN, THEODORE. The Absorption of Some Solids for Light of Extremely	
Short Wave-Lengths	45
METCALF, JOEL H. A Photographic Method for the Detection of Variability	7
in Asteroids	264
MOORE, J. H., and W. W. CAMPBELL, A List of Eight Stars Whose Radial	
Velocities Are Variable.	54
PARKHURST, J. A. Review of: Generalkatalog der Potsdamer photometri-	
schen Durchmusterung des nördlichen Himmels, C. Müller und P.	
Kempf	286
Review of: Atlas Stellarum Variabilium, Series IV, J. G. Hagen -	361
PLASKETT, J. S. The Character of the Star Image in Spectrographic Work	195
SCHUSTER, ARTHUR. On the Velocity of Metallic Particles in the Spark	
Discharge	277
SLIPHER, V. M. Preliminary Note on the Spectrum of o Ceti (Mira)	66
The Spectrum of Mira Ceti	235
Variable Radial Velocity of U Cephei	284
The Spectrum of & Capricorni	285
STARK, J. On the Radiation of Canal Rays in Hydrogen 23	, 170
Remarks on Hull's Observations of the Doppler Effect in Canal Rays -	230
WALLACE, ROBERT JAMES. Studies in Sensitometry. I. The Daylight	
Sensitometry of Photographic Plates, and a Suggested Standard Dis-	
persion-Piece	116
WHITNEY, MARY W. Review of: Introduction to Astronomy, Forest R.	
Moulton	151
WRIGHT, W. H. A List of Southern Stars Having Variable Radial Veloci-	
ties	56
The Variable Radial Velocity of Antares	58

